

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

6460.2
CHG 20

8/11/97

ELECTRONIC EQUIPMENT MODIFICATION HANDBOOK - NEXT GENERATION WEATHER
SUBJ: RADAR (NEXRAD)

CHAPTER 20. ADD BRASCH TK1 THERMOSTAT TO EACH
PEDESTAL HEATER

1. **PURPOSE.** This modification is to provide instructions to add a Brasch thermostat, part number TK1, to each heater located on the pedestal, part number UD2. Currently the heaters are manually operated and intended for human comfort during maintenance. This directive implements Engineering Change Proposal (ECP) F0036, Automatic Pedestal Heating.
2. **DISTRIBUTION.** This directive is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: NXRAD.
3. **WITHDRAWALS.** None.
4. **REFERENCES.** None.
5. **BACKGROUND.** At many sites the temperature can get low enough to cause pedestal encoder problems in the pedestal electronics. The addition of a thermostat will eliminate encoder problems due to cold weather.
6. **APPLICATION.** This modification applies to the following FAA WSR-88D RDA sites.

Anchorage, AK	Bethel, AK	Fairbanks, AK
King Salmon, AK	Middleton Island, AK	Nome, AK
Sitka, AK		

7. **MATERIALS REQUIRED.** The following materials are required to modify each unit and are available in kit form, NSN 6660-K3-117-800A, consisting of the following:

<u>Description</u>	<u>NSN</u>	<u>Part No.</u>	<u>Quantity</u>
a. Thermostat	5930-01-440-2292	TK1	1 each
b. Knob, high-low			1 each
c. Screw, No. 6-32			2 each
d. 14 AWG wire, 18 inch			2 each
e. Clip, retaining			2 each
f. Screws with Nuts No. 4-40			2 each
g. Grommet, split rubber			1 each

Distribution: Selected Airway Facilities Field
and Regional Offices, ZAF-605

Initiated by: AOS-250

The following list indicates the quantity of thermostat kits required for each site:

<u>Site</u>	<u>Quantity</u>
Anchorage, AK	2
Bethel, AK	2
King Salmon, AK	2
Middleton Island, AK	2
Sitka, AK	2
Fairbanks, AK	3
Nome, AK	3

8. **SOURCE OF MATERIALS.** Kits will be requisitioned by the Operational Support Facility (OSF) Logistics Section and shipped, at no cost to the site, from:

National Logistics Supply Center (NLSC)
1520 East Bannister Road
Kansas City, MO 64131

9. **SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED.** None.

10. **MODIFICATION TO BE PERFORMED BY.** Field maintenance personnel or as determined by the regional Airway Facilities division.

11. **WHEN MODIFICATION IS TO BE PERFORMED.** Not later than 60 days after receipt of this directive and kit.

12. **ESTIMATED TIME REQUIRED.** A total of 2.0 man-hours, per thermostat, is required to accomplish this modification. The personnel performing this task will have maintenance and test experience with the WSR-88D Pedestal. Two technicians are required for this procedure.

13. **DISPOSITION OF SURPLUS PARTS.** None.

14. **MODIFICATION PROCEDURES.** See attachment 1.

15. **TEST AFTER MODIFICATION.** See attachment 1.

16. **RESULT OF MODIFICATION.** The WSR-88D products supplied to the end user remain the same. This modification eliminates encoder problems due to low temperatures.

17. **CHANGES TO INSTRUCTION BOOK.** The revised pages required by this modification will be distributed by the OSF System Documentation Section and directly shipped from the NLSC at Kansas City, MO, to the WSR-88D sites and to the required FAA administrative offices. The following is a list of affected technical manuals:

<u>Technical Manual</u>	<u>Date</u>
TI 6460.1 V1 (EHB 6-500)	15 August 1992
TI 6460.1 V2 (EHB 6-501)	15 August 1995
TI 6460.1 V20 (EHB 6-550)	15 August 1992
TI 6460.1 V47 (EHB 6-553)	1 December 1995

18. **CHANGES TO INSTALLATION DRAWINGS.** None.

19. **CHANGES TO RECORDED DATA.** Enter this directive number, date, and chapter number on the appropriate FAA Form 6032-1, Airway Facilities Modification Record. Also, complete attachment 2, and fax or mail to:

8/11/97

6460.2 CHG 20

System Support Branch, Logistics Section
WSR-88D Operational Support Facility
3200 Marshall Ave., Suite 101
Norman, Oklahoma 73072-8028

Fax number: (405) 366-6553

Or, e-mail information to:

khare@osf.noaa.gov

20. **CHANGES TO TABLE OF CONTENTS**. This chapter will be included in the next revision to the table of contents for Order 6460.2.

21. **RECOMMENDATIONS FOR CHANGES**. Forward any recommendations for changes to this directive through normal channels to the National Airway Systems Engineering Division, AOS-200, Operational Support.

Signed

George W. Terrell
Program Director for Operational Support

2 Attachments